

541703

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number  
**WO 2004/063152 A2**

(51) International Patent Classification<sup>7</sup>:

**C07D**

(21) International Application Number:

PCT/US2004/000400

(22) International Filing Date: 8 January 2004 (08.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/439,282

10 January 2003 (10.01.2003) US

(71) Applicant (for all designated States except US): **TRANSFORM PHARMACEUTICALS, INC.** [US/US]; 29 Hartwell Avenue, Lexington, MA 2421 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZHANG, Zhong** [CN/US]; 32 Pokonet Avenue, Sudbury, MA 01776 (US). **ALMARSSON, Orn** [IS/US]; 22 Farmington Drive, Shrewsbury, MA 01545 (US). **CHEN, Hongming** [CN/US]; 8 Sawmill Road, Acton, MA 01720 (US).

(74) Agent: **LUCAS, John**; 29 Hartwell Avenue, Lexington, MA 02421 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LANSOPRAZOLE FORMULATIONS AND RELATED PROCESSES AND METHODS

(57) Abstract: The invention provides novel liquid lansoprazole formulations comprising lansoprazole and an excipient system, wherein: (a) the concentration of lansoprazole in the formulations ranges from about 0.3 mg/mL to about 50 mg/mL; (b) the excipient system comprises either a single excipient, or a combination of two to four compositionally distinct excipients; and (c) the formulations may be administered parenterally to a mammal to treat or prevent a gastrointestinal disorder.

WO 2004/063152 A2